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UNITED STATES DEPARTMENT OF AGRICULTURE,
STATES RELATIONS SERVICE,
A.C. TRUE, DIRECTOR.

LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE
OF EXPERIMENTS STATIONS DURING JANUARY, 1920.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- ✓ Selection of Stocks in Citrus Propagation. By H.J. Webber. (California Sta. Bul. 317, pp. 267-301, figs. 14.)
- Potato Diseases in Hawaii and Their Control. By C.W. Carpenter. (Hawaii Fed. Sta. Bul. 45, pp. 42, pls. 15, figs. 7.)
- ✓ The Seasonal Cost of Milk Production. By F.A. Pearson. (Illinois Sta. Bul. 224, pp. 18, fig. 1.) *8 cop*
- ✓ Field Experiments in Spraying for Control of San Jose Scale, 1919. By W.S. Brock and W.P. Flint. (Illinois Sta. Circ. 239, pp. 4.)
- ✓ Selecting, Dressing and Curing Pork on the Farm. By M.D. Helser. (Iowa Sta. Circ. 61, pp. 24, figs. 28.)
- ✓ Cereal Rust of Small Grains. By I.E. Melhus and L.W. Durrell. (Iowa Sta. Circ. 62, pp. 16, figs. 11.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.A. Smith. (Massachusetts Sta. Met. Bul. 372, pp. 4.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 2(1920), No. 3, pp. 105-153, figs. 14.)
- ✓ Report of West Central Experiment Station, Morris, 1918. By P.E. Miller. (Minnesota Sta. Rpt. 1918, pp. 54, figs. 14.)
- ✓ Twenty-seventh Annual Report, 1919. (Minnesota Sta. Rpt. 1919, pp. 95.)
- Twenty-fifth Annual Report, 1918. (Montana Sta. Rpt. 1918, pp. 109-186, figs. 19.)
- ✓ Analyses of Commercial Fertilizers, Fertilizer Supplies and Home Mixtures. By C.S. Cathcart. (New Jersey Stas. Bul. 337, pp. 53.)
- Report of the Third (Pullet) Year of the Vineland International Egg Laying and Breeding Contest. By R.R. Hannas. (New Jersey Stas. Hints to Poultrymen 8(1919), No. 3, pp. 4.)
- ✓ Thirty-ninth Annual Report of the New Jersey State Agricultural Experiment Station and the Thirty-first Annual Report of the New Jersey Agricultural College Experiment Station, 1918. (New Jersey Stas. Rpts. 1918, pp. XXIV + 302.)

(Over)

The Lecithin Content of Butter and Its Possible Relationship to the Fishy Flavor. By G.C. Supplee. (New York Cornell Sta. Memoir 29, pp. 95-151, pl. 1.)

List of Farm Products for Sale in North Carolina. (North Carolina Sta. Farmers' Market Bul. 6(1919), No. 51, pp. 19, fig. 1.)

Report of the Dickinson Substation for the Years 1914 to 1918, Inclusive. (North Dakota Sta. Bul. 131, pp. 83, figs. 20.)

State and Regulatory Work. (North Dakota Sta. Spec. Bul. Food Dept. 5(1919), No. 15, pp. 345-373.)

The Maintenance of Soil Fertility.--A Quarter Century's Work with Manure and Fertilizers. (Ohio Sta. Bul. 336, pp. 575-649, figs. 11.)

Ohio Weather for 1918. By V.H. Alexander and C.A. Patten. (Ohio Sta. Bul. 337, pp. 645-737, figs. 63.)

Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. No. Buls. 4(1919), No. 9, pp. 265-296, figs. 8; No. 10, pp. 297-328, figs. 10; No. 11, pp. 329-360, figs. 12.)

Third Annual Report for the Year 1913 by the Oklahoma State Live Stock Registry Board. (Oklahoma Sta. Circ. 45, pp. 120, figs. 10.)

Inspection of Commercial Fertilizers. By P.H. Vessels. (Rhode Island Sta. Ann. Fert. Bul. 1919, pp. 11.)

Thirty-second Annual Report, 1919. By H.W. Barre. (South Carolina Sta. Ann. Rpt. 1919, pp. 51.)

Commercial Feeding Stuffs. By F.D. Fuller. (Texas Sta. Bul. 251, pp. 241.)

Dusting Experiments in Peach and Apple Orchards. By F.D. Fromme and G.B. Ralston. (Virginia Sta. Bul. 323, pp. 16, figs. 3.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1920), No. 10, pp. 153-176, figs. 8.)

Wheat Growing in Wisconsin. By E.J. Delwiche and B.D. Leith. (Wisconsin Sta. Bul. 305, pp. 18, figs. 7.)

The Rural Community Fair. By C.J. Galpin and E.F. Hoag. (Wisconsin Sta. Bul. 307, pp. 48, figs. 13.)

Marsh Soils. By A.R. Whitson and H.W. Ullsperger. (Wisconsin Sta. Bul. 308, pp. 32, figs. 7.)

UNITED STATES DEPARTMENT OF AGRICULTURE,
STATES RELATIONS SERVICE,
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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE
OF EXPERIMENT STATIONS DURING FEBRUARY, 1920.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Thirty-second Annual Report, 1920. (Alabama Sta. Rpt. 1920, pp. 35.)
- The Effects of Alkali on Citrus Trees. By W.P. Kelley and E.E. Thomas. (California Sta. Bul. 318, pp. 303-337, figs. 2.)
- Methods for Marketing Vegetables in California. By S.S. Rogers. (California Sta. Circ. 217, pp. 19.)
- Annual Report, 1918-19. (California Sta. Rpt. 1918-19, pp. 163, pl. 1.)
- The Food Value of Milk. By E.L. Ferry. (Connecticut State Sta. Bul. 215, pp. 30, figs. 14.)
- Insects Attacking Squash, Cucumber, and Allied Plants in Connecticut. By W.E. Britton. (Connecticut State Sta. Bul. 216, pp. 31-51, pls. 8, figs. 9.)
- Commercial Feeding Stuffs.--Quarterly Report, April 1, 1919-June 30, 1919. By E.G. Proulx, et al. (Indiana Sta. Bul. 231, pp. 219.)
- ✓ The Effects of Certain Grain Rations on the Growth of the White Leghorn Chick and Their Influence on Subsequent Egg-production. By C.D. Buckner, et al. (Kentucky Sta. Bul. 220, pp. 20, pls. 4.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.S. Smith. (Massachusetts Sta. Met. Bul. 373, pp. 4.)
- ✓ Report of Northwest Experiment Station, Crookston, 1917-18. By C.G. Selvig. (Minnesota Sta. Bul. Crookston Ser. 12(1919), No. 5, pp. 99, figs. 25.)
- ✓ Sorghum and Sorghum Sirup Manufacture. By J.J. Willaman, R.M. West and C.P. Bull. (Minnesota Sta. Bul. 187, pp. 55, figs. 21.)
- ✓ Bacteriological Effects of Green Manure, II. By C.F. Briscoe, and H.H. Harned. (Mississippi Sta. Bul. 185, pp. 17, figs. 8.)
- ✓ Biennial Report of Secretary-Treasurer of Missouri State Poultry Board.-- Also Financial Statement for 1917-18. By T.W. Noland. (Missouri Sta. Bul. 17, pp. 39, figs. 7.)

- ✓ The Nebraska Tractor Law.--Rules for Official Tractor Tests. By L.W. Chase, et al. (Nebraska Sta. Circ. 10, pp. 14, fig. 1.)
- Inspection of Commercial Feeding Stuffs. By T.O. Smith. (New Hampshire Sta. Bul. 191, pp. 42.)
- Results of Seed Tests for 1919. By F.W. Taylor. (New Hampshire Sta. Bul. 193, pp. 19.)
- Inspection of Commercial Fertilizers for 1919. By T.O. Smith. (New Hampshire Sta. Bul. 194, pp. 15.)
- ✓ The Cost of Producing Eggs on a One-man Poultry Farm in New Jersey for 1919. By V.G. Aubry. (New Jersey Stas. Hints to Poultrymen, 8(1920), No. 4, pp. 4.)
- ✓ The Farmer's Interest in Good Seed. By J.L. Burgess. (North Carolina Sta. Farmers' Market Bul. 7(1920), No. 32, pp. 24.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 4(1919), No. 8, pp. 233-263, figs. 5.)
- Duty of Water in Irrigation. By W.L. Powers. (Oregon Sta. Bul. 161, pp. 20, fig. 1.)
- ✓ Extirpacion de la Garrapata. By J. Bague. (Porto Rico Insular Sta. Circ. 18, pp. 12, pl. 1, figs. 2.)
- A Field Comparison of Hydrated Lime with Limestone of Different Degrees of Fineness. By B.L. Hartwell and S.C. Damon. (Rhode Island Sta. Bul. 180, pp. 18, figs. 4.)
- The Chemical Composition of the Cotton Plant. By G.S. Fraps. (Texas Sta. Bul. 247, pp. 17.)
- Commercial Fertilizers in 1918-19. By G.S. Fraps. (Texas Sta. Bul. 248, pp. 27.)
- Field Diseases of the Sweet Potato in Texas. By J.J. Taubenhous. (Texas Sta. Bul. 249, pp. 22, figs. 34.)
- Storage and Diseases of the Sweet Potato in Texas. (Texas Sta. Bul. 250, pp. 41, figs. 39.)
- Commercial Feeding Stuffs Registered for Sale in Texas, October 1, 1919. By F.D. Fuller. (Texas Sta. Bul. 252, pp. 304, figs. 2.)
- ✓ A Study of Methods of Determining Soil Alkali. By D.V. Pittman. (Utah Sta. Bul. 170, pp. 21, figs. 9.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 7(1920), No. 11, pp. 177, figs. 6.)
- Alfalfa in Wisconsin. By R.A. Moore and L.F. Graber. (Wisconsin Sta. Bul. 308, pp. 34, figs. 21.)

UNITED STATES DEPARTMENT OF AGRICULTURE,
STATES RELATIONS SERVICE,
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LIST OF STATION PUBLICATIONS RECEIVED BY THE OFFICE
OF EXPERIMENT STATIONS DURING MARCH, 1920.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Cotton Worm Control. By W.E. Hinds. (Alabama Sta. Circ. 42, pp. 61-68, figs. 9.) ✓
- Annual Report of the Director of the Experiment Station on Work Done Under the Local Experiment Law in 1919. By J.F. Duggar. (Alabama Sta. Circ. 43, pp. 31.)
- Spray Calendar. (Arkansas Sta. Circ. 48, pp. 4.) ✓
- Citrus Fertilizer Experiments. By S.E. Collison. (Florida Sta. Bul. 154, pp. 48, figs. 11.)
- Prussic Acid in Sorghum. By S.E. Collison. (Florida Sta. Bul. 155, pp. 49-56.)
- Work and Progress of the Agricultural Experiment Station for the Year Ended December 31, 1919. (Idaho Sta. Bul. 119, pp. 12, fig. 1.) ✓
- Treating Oats for Smut. By W.L. Burlison and R.W. Stark. (Illinois Sta. Circ. 240, pp. 4.)
- Commercial Feeding Stuffs.--Quarterly Report July 1, 1919- September 30, 1919. By E.G. Proulx, et al. (Indiana Sta. Bul. 232, pp. 60, figs. 9.)
- Disease-free Sweet Corn Seed. By G.N. Hoffer. (Indiana Sta. Bul. 233, pp. 12, figs. 8.)
- Reclaiming Iowa's "Push" Soils. By L.W. Forman. (Iowa Sta. Bul. 191, pp. 161-176, figs. 7.) ✓
- Cold Storage for Iowa Apples.--Third Progress Report. By W.E. Whitehouse. (Iowa Sta. Bul. 192, pp. 176-216, figs. 15.) ✓
- The Farm Tractor in Iowa. By E.V. Collins. (Iowa Sta. Circ. 63, pp. 8, fig. 1.) ✓
- Studies on Color in Swine. By O. Lloyd-Jones and J.M. Evvard. (Iowa Sta. Res. Bul. 53, pp. 201-208.) ✓
- Studies on Formation of Gas in Sweetened Condensed Milk. By B.W. Hammer. (Iowa Sta. Res. Bul. 54, pp. 209-220, figs. 2.) ✓
- The Volatile Acid Production of Starters and of Organisms Isolated from Them. By B.W. Hammer and D.E. Bailey. (Iowa Sta. Res. Bul. 55, pp. 221-246.) ✓

Improving Mongrel Farm Flocks Through Selected Standardbred Cockerels. By W.A. Lippincott. (Kansas Sta. Bul. 223, pp. 28, figs. 30.)

The Maize Billbug or Elephant Bug (Scaphenochorus maidis). By W.P. Hayes. (Kansas Sta. Tech. Bul. 6, pp. 27, figs. 12)

✓ Some Experiments with Tomatoes. By A.J. Olney. (Kentucky Sta. Bul. 218, pp. 147-159, figs. 6.)

✓ Commercial Fertilizers. By H.F. Curtis and W. Rodes. (Kentucky Sta. Bul. 219, pp. 161-252)

Annual Report, 1918-19. By H.J. Patterson. (Maryland Sta. Rpt. 32(1918-19), pp. 61.)

✓ The Propagation of Apple Trees on Their Own Roots. By J.T. Shaw. (Massachusetts Sta. Bul. 120, pp. 73-36, pls. 4.)

✓ Practical Results from Studies on Egg Production. By H.D. Goodale. (Massachusetts Sta. Bul. 121, pp. 97-104, fig. 1.)

Inspection of Commercial Feedstuffs. By P.H. Smith and E.S. Mixer. (Massachusetts Sta. Cont. Ser. Bul. 11, pp. 3-32.)

✓ Inspection of Commercial Fertilizers. By H.D. Haskins, L.S. Walker, and J.E. Smith. (Massachusetts Sta. Cont. Ser. Bul. 12, pp. 3-77.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Smith. (Massachusetts Sta. Rpt. Bul. 374, pp. 4.)

✓ Farm Practice in Growing Sugar Beets in the Billings Region of Montana. By S.B. Nichols and E.L. Currier. (Montana Sta. Bul. 122, pp. 2: 40, figs. 7.)

Degeneration in Potatoes. By O.B. Whipple. (Montana Sta. Bul. 120, pp. 29, figs. 16.)

Growing and Feeding Sunflowers in Montana. By A. Atkinson, et al. (Montana Sta. Bul. 131, pp. 29, figs. 4.)

Blackleg. By H. Welch. (Montana Sta. Circ. 86, pp. 8, figs. 8.)

A Further Report on Montana Climate. By E. Burke and R.M. Finchney. (Montana Sta. Circ. 87, pp. 15, figs. 4.)

Arrow-grass.--A New Stock-poisoning Plant (Triglochin maritima). By C.E. Fleming, et al. (Nevada Sta. Bul. 98, pp. 22, figs. 10.)

✓ Annual Report, 1918. (New Hampshire Sta. Bul. 192, pp. 35.)

✓ Commercial Feeding Stuffs and Registrations for 1919. By C.E. Cathcart. (New Jersey Stas. Bul. 336, pp. 5-60.)

✓ Analyses of Materials Sold as Insecticides and Fungicides During 1919. By C.E. Cathcart and R.L. Willis. (New Jersey Stas. Bul. 332, pp. 5-21.)

Poultry Rations and Methods of Feeding. By H.R. Lewis. (New Jersey Stas. Hints to Poultrymen, 8(1920), No. 5, pp. 4.)

"Safety First" in the Poultry Yard. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen, 8(1920), No. 6, pp. 4.)

Spray Calendar for Apples and Quinces. (New Jersey Stas. Circ. 116, pp. 4, figs. 3.)

Spray Calendar for Peaches. (New Jersey Stas. Circ. 117, pp. 4, figs. 3.)

Spray Calendar for Pears. (New Jersey Stas. Circ. 118, pp. 3, fig. 1.)

Spray Calendar for Plums. (New Jersey Stas. Circ. 119, pp. 3, fig. 1.)

Spray Calendar for Cherries. (New Jersey Stas. Circ. 120, pp. 3, fig. 1.)

Cotton Growing. By R.L. Stewart. (New Mexico Sta. Bul. 120, pp. 16, figs. 5.)

Fusarium Wilt of Chile Pepper. By L.H. Leonian. (New Mexico Sta. Tech. Bul. 121, pp. 32, figs. 7.)

✓ Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 7(1920), No. 33, pp. 23, figs. 3.)

Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls. 4(1919), No. 12, pp. 363-391, figs. 10; 5(1920), No. 1, pp. 3-32, figs. 4.)

The Four-spotted Cowpea Weevil (Bruchus quadrimaculatus). By O. Wade. (Oklahoma Sta. Bul. 129, pp. 14, figs. 6.)

Annual Report, 1919. By H.G. Knight. (Oklahoma Sta. Rpt. 28(1919), pp. 4-62, fig. 1.)

The Soils of Jackson County. By H.V. Tartar and F.C. Reimer. (Oregon Sta. Bul. 164, pp. 62, pl. 1.)

The Improvement and Irrigation Requirement of Wild Meadow and Tule Land. By W.L. Powers and W.W. Johnston. (Oregon Sta. Bul. 167, pp. 44, figs. 37.)

Survey of Typical Oregon Farmers' Creameries. By E. Englund. (Oregon Sta. Bul. 168, pp. 24, figs. 5.)

✓ Annual Report, 1919. (South Dakota Sta. Rpt. 1919, pp. 35.)

Report of Experiments at Substation No. 12, Chillicothe, Texas. By R.W. Edwards. (Texas Sta. Bul. 253, pp. 5-28, figs. 11.)

Report of Experiments at Substation No. 11, Macogdoches, Texas. By G.T. McNess. (Texas Sta. Bul. 254, pp. 22, figs. 6.)

Alfalfa Seed Growing and the Weather.--With Particular Reference to Conditions in Utah. By J.C. Alter. (Utah Sta. Bul. 171, pp. 31, figs. 9.) ✓

✓ Soil Alkali. By F.S. Harris. (Utah Sta. Circ. 41, pp. 3-7, figs. 2.)

Cold Storage of Cottage and Other Soft Curd Cheeses. By H.B. Ellenberger.
(Vermont Sta. Bul. 213, pp. 22.)

✓ Virginia Truck Experiment Station Bulletin. (Virginia Truck Sta. Bul.
25, pp. 7.)

✓ Boons for Spraying Truck Crops. By L.B. Smith and H.H. Zimmerley.
(Virginia Truck Sta. Bul. 28, pp. 81-98, figs. 6.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup,
Wash. (Western Washington Sta. Mo. Bul. 7(1920), No. 12, pp. 193-203,
figs. 5.)

A Two-year Farm Management Survey of Greenbrier and Monroe Counties.
By A.J. Dadisman and C.F. Sarle. (West Virginia Sta. Bul. 173, pp. 34,
figs. 12.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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LIST OF STATION PUBLICATIONS
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APRIL, 1920.

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- Comparison of Peanut Meal, Cottonseed Meal, Velvet Bean Meal, Ammonium Sulphate, and Nitrate of Soda, as Fertilizers for Corn and Cotton. By E. F. Cauthen. (Alabama Sta. Bul. 208, pp. 3-6.)
- Growing Cotton in Arizona. By G. E. Thompson and C. J. Wood. (Arizona Sta. Bul. 90, pp. 265-275, figs. 5.)
- Report of Oats Experiments, 1908-1919. By M. Nelson and L. W. Osborn. (Arkansas Sta. Bul. 165, pp. 3-32, figs. 2.)
- Caprifigs and Caprification. By I. J. Condit. (California Sta. Bul. 319, pp. 341-375, figs. 23.)
- Control of the Coyote in California. By J. Dixon. (California Sta. Bul. 320, pp. 379-397, figs. 6.)
- Honey as a Carrier of Intestinal Diseases. By W. G. Sackett. (Colorado Sta. Bul. 252, pp. 5-18.)
- Orchard Survey of Fremont County. By E. P. Sandsten and C. W. Tompkins. (Colorado Sta. Bul. 254, pp. 3-38, figs. 3.)
- Whorled Milkweed.--The Worst Stock-poisoning Plant in Colorado. By W. L. May. (Colorado Sta. Bul. 255, pp. 3-39, figs. 28.)
- Thirty-second Annual Report, 1919. (Colorado Sta. Ann. Rpt. (1919), pp. 37.)
- Biennial Report.--Containing the Twenty-eighth and Twenty-ninth Annual Reports of the Storrs Agricultural Experiment Station, for the years 1915-16, 1916-17. (Connecticut Storrs Sta. Pub. Doc. 34, pp. VIII + 486, figs. 60.)
- The Influence of Certain Factors on the Time of Opening of Cotton. By T. E. Keitt and A. W. Murray. (Georgia Sta. Bul. 130, pp. 21-34, figs. 3.)
- A Comparison of Certain Raw Phosphates with Acid Phosphate for Fertilizing Cotton. By T. E. Keitt and A. W. Murray. (Georgia Sta. Bul. 131, pp. 39-45.)
- A New Method for Rendering Insoluble Phosphates Available. By T. E. Keitt and A. W. Murray. (Georgia Sta. Bul. 132, pp. 51-58.)

Work with Vitis rotundifolia.--A Species of Muscadine Grapes. By H. P. Stuckey. (Georgia Sta. Bul. 133, pp. 62-74, pls. 4, figs. 5.)

Further Studies in Fertilizing and Storing Sweet Potatoes. By H. P. Stuckey. (Georgia Sta. Bul. 134, pp. 75-87.)

Spraying Peaches. By H. P. Stuckey and B. B. Higgins. (Georgia Sta. Bul. 135, pp. 93-101.)

Thirty-second Annual Report, 1919. (Georgia Sta. Ann. Rpt. (1919), pp. 16.)

✓ The Management of Palouse Soils. By P. P. Peterson. (Idaho Sta. Circ. ^{9, 10, 11.} 12, pp. 3, fig. 1.)

The Modified Rag Doll and Germinator Box. By B. H. Duddleston. (Indiana Sta. Bul. 236, pp. 3-12, figs. 7.)

Thirty-second Annual Report, 1919. By C. G. Woodbury. (Indiana Sta. Ann. Rpt. (1919), pp. 5-100, figs. 14.)

✓ Sudan Grass as a Supplementary Pasture Crop for Dairy Cattle. By L. F. Call and J. B. Fitch. (Kansas Sta. Circ. 80, pp. 4, fig. 1.)

Transmitting Qualities of Jersey Sires for Milk Yield, Butter-fat Percentage and Butter-fat. By R. Pearl, J. W. Gowen, and J. R. Miner. (Maine Sta. Bul. 281, pp. 89-164, figs. 3.)

Three Pink and Green Aphids of the Rose. By E. M. Patch. (Maine Sta. Bul. 282, pp. 205-248.)

Animal Husbandry Investigations in 1919. By J. W. Gowen. (Maine Sta. Bul. 283, pp. 249-284, figs. 7.)

✓ Seventh Report of the Cranberry Substation. By H. J. Franklin. (Massachusetts Sta. Bul. 192, pp. 105-141.)

✓ The Supply and Distribution of Connecticut Valley Cigar Leaf Tobacco. By S. H. DeVault and A. E. Cance. (Massachusetts Sta. Bul. 193, pp. VI, 145-330, pls. 9, figs. 15.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. S. Smith. (Massachusetts Sta. Met. Bul. 375, pp. 4.)

Vinegar. By Z. N. Wyant. (Michigan Sta. Spec. Bul. 98, pp. 5-27, figs. 7.)

The Detroit Commission Plan of City Milk Administration. By W. C. Hedrick and A. C. Anderson. (Michigan Sta. Spec. Bul. 99, pp. 30, figs. 5.)

The Effect of Fertilizer Salts Treatments on the Composition of Soil Extracts. By C. H. Spurway. (Michigan Sta. Tech. Bul. 45, pp. 3-18.)

The Use of Solutions of Ammonium Citrate for the Estimation of Reverted Calcium Phosphate. By C. S. Robinson. (Michigan Sta. Tech. Bul. 46, pp. 3-29.)

Studies in the Heat Resistant Organisms of Cold Packed Canned Peas. By F. Normington. (Michigan Sta. Tech. Bul. 47, pp. 33.)

- Handling Farm Manure. By F. L. Duley. (Missouri Sta. Bul. 166, pp. 3-29, figs. 13.)
- Renting Land in Missouri.--Share, Share-cash, and Cash Systems with Model Forms of Lease. By O. R. Johnson and R. M. Green. (Missouri Sta. Bul. 167, pp. 5-52, figs. 6.)
- Inspection of Commercial Fertilizers, 1919. (Missouri Sta. Bul. 168, pp. 55.)
- Pruning the Apple. By W. R. Gardner. (Missouri Sta. Circ. 90, pp. 20, figs. 11.)
- Feeding Baby Chicks. By H. L. Kempster. (Missouri Sta. Circ. 91, pp. 4.)
- Bagworms Destructive in Missouri. By L. Haseman. (Missouri Sta. Circ. 92, pp. 4, figs. 4.)
- An Investigation in Transplanting. By J. C. Whitten. (Missouri Sta. Res. Bul. 33, pp. 3-73, pls. 4, fig. 1.)
- A Study of the Birth Weight of Calves. By C. H. Eckles. (Missouri Sta. Res. Bul. 35, pp. 3-11, fig. 1.)
- Feeding for Winter Eggs. By H. E. Cosby. (Missouri Sta. Bul. 20, pp. 14, figs. 9.)
- Incubation and Brooding. By T. W. Noland. (Missouri Sta. Bul. 21, pp. 24, figs. 9.)
- A List of Breeders of Pure Bred Live Stock in Montana. (Montana Sta. Spec. Circ. 5, pp. 24.)
- Strawberries in Nebraska. By C. C. Wiggans. (Nebraska Sta. Circ. 11, pp. 7, figs. 2.)
- Annual Report of the Board of Control for the Fiscal Year Ending June 30, 1919. (Nevada Sta. Rpt. (1919), pp. 44, figs. 4.)
- Physiology of the Apple.--Distribution of Food Materials in the Tree at Different Periods of Vegetation. By O. R. Butler, T. O. Smith, and B. E. Curry. (New Hampshire Sta. Tech. Bul. 13, pp. 3-21, pl. 1.)
- Some Fundamental Factors that Determine Progress in Farm Sheep Breeding. By E. G. Ritzman. (New Hampshire Sta. Tech. Bul. 14, pp. 3-21.)
- The First Two Years of the Vineland Contest.--A Study of the Results Obtained During the First Two Years at the Vineland International Egg-laying and Breeding Contest. By H. R. Lewis, R. R. Hannas, and E. H. Wene. (New Jersey Stas. Bul. 33^a, pp. 5-96, pls. 2, figs. 30.)
- Fertilizer Registrations for 1920. By C. S. Cathcart. (New Jersey Stas. Bul. 341, pp. 5-32.)
- State Laws Concerning Mosquito Control Work in New Jersey.--Chapter 104, Laws of 1912 as Amended by Chapter 123, Laws of 1919. (New Jersey Stas. Circ. 110, pp. 8.)

- The Mosquito Must Go. By T. J. Headlee and W. Carroll. (New Jersey Stas. Circ. 111, pp. 3-14, figs. 11.)
- Diseases of Celery. By W. S. Krout. (New Jersey Stas. Circ. 112, pp. 3-12, figs. 7.)
- Common Thistles. By J. G. Fiske. (New Jersey Stas. Circ. 113, pp. 2-7, figs. 5.)
- Sweet Potato Culture and Storage in New Jersey. By R. W. DeBaun. (New Jersey Stas. Circ. 114, pp. 31, figs. 19.)
- Standard Poultry Houses. By H. R. Lewis and W. C. Thompson. (New Jersey Stas. Circ. 115, pp. 3-23, figs. 14.)
- Standard Scores of the Birds at the Second Vineland International Egg-laying and Breeding Contest. By R. P. Hannas. (New Jersey Stas. Hints to Poultrymen, 8(1920), No. 7, pp. 4.)
- Darso. By M. A. Beeson and A. Daane. (Oklahoma Sta. Bul. 127, pp. 2-19, figs. 9.)
- Fertilizers for Oregon Orchards. By C. I. Lewis, F. C. Reimer, and G. G. Brown. (Oregon Sta. Bul. 166, pp. 3-48, figs. 5.)
- Commercial Fertilizers. By R. H. Robinson. (Oregon Sta. Circ. 21, pp. 15.)
- Computation of Dairy Rations. (Pennsylvania Sta. Bul. 161, pp. 5-28.)
- Trona Potash: A Progress Report. By C. P. Blackwell and G. W. Collings. (South Carolina Sta. Bul. 202, pp. 24.)
- The Influence of Length of Wheat Heads on Resulting Crops.--The Correlation Between the Length of Parent Head and Yield of Progeny, in Successive Generations of Bluestem Wheat (Minnesota 159). By A. M. Hume, M. Champlin, and M. Fovlds. (South Dakota Sta. Bul. 187, pp. 137-159.)
- Thirty-first Annual Report, 1917-18. By J. L. Hills. (Vermont Sta. Bul. 212, pp. 16.)
- Tip Burn ^{212, 213} of the Potato and Other Plants. By B. F. Lutman. (Vermont Sta. Bul. 214, pp. 3-28, pls. 2, figs. 9.)
- Resistance of Potato Tubers to Scab. By B. F. Lutman. (Vermont Sta. Bul. 215, pp. 3-30, pls. 5.)
- Head Smut of Corn and Sorghum. By B. F. Dana and G. L. Zundel. (Washington Sta. Pop. Bul. 119, pp. 3-8, figs. 4.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 8(1920), No. 1, pp. 2-16, figs. 3.)
- Experiments with Buckwheat. By F. W. Stemple. (West Virginia Sta. Bul. 171, pp. 5-13, fig. 1.)
- Soy Bean Experiments. By F. W. Stemple. (West Virginia Sta. Bul. 172, pp. 5-19, figs. 3.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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LIST OF STATION PUBLICATIONS
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Time of Applying Nitrate of Soda to Cotton. By E. F. Cauthen and J. T. Williamson. (Alabama Sta. Bul. 209, pp. 3-15).

Time of Applying Nitrate of Soda to Corn. By E. F. Cauthen and J. T. Williamson. (Alabama Sta. Bul. 210, pp. 19-32).

Fertilizer Report for 1919. By E. H. Jenkins and E. M. Bailey. (Connecticut State Sta. Bul. 217, pp. 55-106).

Nineteenth Report of the State Entomologist, 1919. By W. E. Britton. (Connecticut State Sta. Bul. 218, pp. 109-208, pls. 24, figs. 5).

The Connecticut Fertilizer Law. By E. H. Jenkins. (Connecticut State Sta. Bul. Inform. 9(1919), pp. 8).

The Treatment of Apple Trees Girdled by Mice. By E. M. Stoddard. (Connecticut State Sta. Bul. Inform. 10(1920), pp. 7, figs. 8).

Colorado Pure Seed Law. By W. W. Robbins. (Colorado Sta. Seed Lab. Bul. 1(1919), No. 4, pp. 3-16, figs. 2).

Feeding for Egg Production.--Vegetable v. Animal Protein in Egg Production. By P. Moore. (Idaho Sta. Bul. 117, pp. 9, fig. 1).

Soil and Climatic Factors in Relation to Crop Production on the Palouse Silt Loam of Idaho. By P. P. Peterson. (Idaho Sta. Bul. 118, pp. 19, fig. 1).

Nitrate Production in Field Soils in Illinois. By A. L. Whiting and W. R. Schoonover. (Illinois Sta. Bul. 225, pp. 21-63).

Sheep Feeding, IX.--Fattening Western Lambs. By J. H. Skinner and C. M. Vestal. (Indiana Sta. Bul. 234, pp. 3-16, fig. 1).

Corn Silage.--The Keystone of Economical Cattle Feeding. By J. H. Skinner and F. G. King. (Indiana Sta. Bul. 235, pp. 3-11, figs. 3).

Soy Beans in Indiana. By A. T. Wiancko and C. O. Cromer. (Indiana Sta. Bul. 238, pp. 3-16, figs. 9).

Borax in Fertilizers. By S. D. Conner and E. N. Fergus. (Indiana Sta. Bul. 239, pp. 3-15, figs. 4).

Stallion Enrollment, VIII.--Report of Stallion Enrollment Work for Year 1919 With Lists of Stallions and Jacks Enrolled. By H.E. McCartney. (Indiana Sta. Circ. 94, pp. 92, fig. 1).

Soy Beans in Iowa. By H.D. Hughes and F.S. Wilkins. (Iowa Sta. Circ. 65, pp. 4).

Sudan Grass in Iowa. By H.D. Hughes and F.S. Wilkins. (Iowa Sta. Circ. 66, pp. 4).

Marketing Hemp. By J.R. Humphrey. (Kentucky Sta. Bul. 221, pp. 25-43, figs. 6).

Tractor Experience in Kentucky. By W.D. Nichols. (Kentucky Sta. Bul. 222, pp. 47-68, figs. 4).

Feeds and Their Use.--Inspection and Analyses. By J.D. Turner, H.D. Spears, and A. M. Peter. (Kentucky Sta. Bul. 223, pp. 71-255).

The Broods of the Tobacco Worms. By H. Carman and H.H. Jewett. (Kentucky Sta. Res. Bul. 225, pp. 3-24, figs. 4).

Thirty-first Annual Report, 1918. (Kentucky Sta. Rpt. 1918, pp. 71).

Effect of Fungi on the Germination of Sugar Cane. By C.W. Edgerton and C.C. Moreland. (Louisiana Sta. Bul. 169, pp. 3-40, pls. 9, figs. 2).

Studies in Milk Secretion, VII.--Transmitting Qualities of Jersey Sires for Milk Yield, Butter-fat Percentage, and Butter-fat. By R. Pearl, J.W. Gowen, and J.R. Miner. ([Maine Sta.] Bul. 281, Supplement, pp. 165-204).

Abstracts of Papers Not Included in Bulletins, Finances, Meteorology, Index. (Maine Sta. Bul. 284, pp. 285-312).

Thirty-fifth Annual Report, 1919. (Maine Sta. Rpt. 1919, pp. XVI).

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.S. Smith. (Mass. Sta. Met. Bul. 376, pp. 4).

Studies in the Cost of Milk Production, No. 2. By F.T. Riddell and A.C. Anderson. (Michigan Sta. Bul. 286, pp. 37, figs. 7).

Fertilizer Analyses. By A.J. Patten, et al. (Michigan Sta. Bul. 287, pp. 62).

State Laws Governing the Protection and Planting of Street Trees. (Michigan Sta. Circ. 41, pp. 8).

Short Season Hay Crops. By C.R. Megee. (Michigan Sta. Circ. 42, pp. 4).

Legume Inoculation. By D.B. Swingle and G.B. Nutting. (Montana Sta. Circ. 88, pp. 8, fig. 1).

Dry Farming in the Plains Area of Montana. By G.W. Morgan and A.E. Seamans. (Montana Sta. Circ. 89, pp. 22).

- Analyses of Commercial Fertilizers and Ground Bone.--Analyses of Agricultural Lime. By C.S. Cathcart. (New Jersey Stas. Bul. 340, pp. 5-54).
- Digest and Copy of Revised Feeding Stuffs Law. (New Jersey Stas. Circ. 109, pp. 8).
- Summer-time and the Pullets. W.C. Thompson. (New Jersey Stas. Hints to Poultrymen 8(1920), No. 8, pp. 4).
- Thirtieth Annual Report, 1919. (New Mexico Sta. Rpt. 1919, pp. 44).
- A Test of Methods in Pruning the Concord Grape in the Chautauqua Grape Belt. By F.E. Gladwin. (New York State Sta. Bul. 464, pp. 189-213, pls. 10).
- The Rosy Aphis in Relation to Abnormal Apple Structures. By P.J. Parrott, H.E. Hodgkiss and F.Z. Hartzell. (New York State Sta. Tech. Bul. 66, pp. 3-29, pls. 8, figs. 6).
- Forty-second Annual Report, 1919. (North Carolina Sta. Rpt. 1919, pp. 7-86).
- Special Bulletin Food Department. By A.K. Johnson. (North Dakota Sta. Spec. Food Bul. 5(1920), No. 16, pp. 475-522).
- Value of Red Durum or D 5 Wheat. By T. Sanderson. (North Dakota Sta. Spec. Food Bul. 5(1920), No. 17, pp. 507-517).
- Fargo and Its Grocery Stores. By A.K. Johnson. (North Dakota Sta. Spec. Food Bul. 5(1920), No. 18, pp. 535-550).
- Thirty-eighth Annual Report, 1919. (Ohio Sta. Bul. 338, pp. 40, fig. 1).
- Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls. 5(1920) Nos. 2, pp. 35-63, figs. 19; 3, pp. 67-96, figs. 7; 4, pp. 99-127, figs. 11; 5, pp. 131-159, figs. 6).
- List of Available Publications. (Oklahoma Sta. Circ. 46, p. 1).
- Annual Report, 1916. (Pennsylvania Sta. Off. Doc. 17, pp. 603, pls. 62, figs. 73).
- Beekeeping for Beginners. By H.B. Parks. (Texas Sta. Bul. 255, pp. 7-25, pls. 6).
- Report of Experiments, Substation No. 4, Beaumont, Tex. By H.H. Laude. (Texas Sta. Bul. 258, pp. 5-20, figs. 6).
- Investigations in Adapting the Automobile to Accurate Soil Survey and Road Traverse Work. By W.T. Carter, Jr., J.F. Stroud, and T.M. Bushnell. (Texas Sta. Circ. 19, pp. 3-9, figs. 6).
- Patch-budding Large Limbs and Trunks of Pecan Trees. By J.A. Evans. (Texas Sta. Circ. 20, pp. 3-7, figs. 2).
- The Value of Barnyard Manure on Utah Soils. By F.S. Harris. (Utah Sta. Bul. 172, pp. 3-21, figs. 13).
- The Duty of Water in Cache Valley, Utah. By F.S. Harris. (Utah Sta. Bul. 173, pp. 2-16, figs. 10).

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash.
(Washington Sta. Mo. Bul. 8(1920), No. 2, pp. 13-30, figs. 9).

The Pea Moth.--How to Control It. By C.L. Fluke, Jr. (Wisconsin Sta. Bul. 310,
pp. 3-12, figs. 10).

Sorghum for Syrup in Wisconsin. By A.H. Wright. (Wisconsin Sta. Bul. 311, pp.
3-30, figs. 17).

Twenty-ninth Annual Report, 1919. (Wyoming Sta. Ann. Rpt. 1919, pp. 141-167,
fig. 1).

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- Varieties of Cotton, 1919. By M. Nelson and E.A. Hodson. (Arkansas Sta. Bul. 166, pp. 3-8.)
- Lint Frequency in Cotton With a Method for Determination. By E.A. Hodson. (Arkansas Sta. Bul. 168, pp. 3-11.)
- Infectious Abortion in Cattle.--II, Specific Measures of Control and Ultimate Eradication. By G.C. White and L.F. Rettger. (Connecticut Storrs Sta. Bul. 103, pp. 139-150, figs. 5.)
- The Use of Fermented Milk and Milk Diets to Control Intestinal Putrefaction. By R.C. Fisher. (Connecticut Storrs Sta. Bul. 104, pp. 153-175.)
- Sweet Potato Fertilizer Experiment. By J.M. Scott. (Florida Sta. Bul. 156, pp. 59-63, fig. 1.)
- Advanced Registry Testing. By H.P. Davis. (Idaho Sta. Circ. 9, pp. 11.)
- Black Locust in Idaho. By F.G. Miller. (Idaho Sta. Circ. 11, pp. 4, fig. 1.)
- Sulphur in Relation to Soil Fertility. By R. Stewart. (Illinois Sta. Bul. 227, pp. 99-108.)
- An Epidemic of Ropy Milk, By H.A. Harding and M.J. Prucha. (Illinois Sta. Bul. 228, pp. 110-124, fig. 1.)
- Effect of Seasonal Conditions and Soil Treatment on Bacteria and Molds in Soil. By P.E. Brown and W.V. Halversen. (Iowa Sta. Res. Bul. 56, pp. 251-278, figs. 7.)
- Commercial Agricultural Seeds, 1919.--Insecticides and Fungicides, 1918 and 1919. By C.D. Woods. (Maine Sta. Off. Insp. 94, pp. 97-104.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.S. Smith. (Massachusetts Sta. Met. Bul. 377, pp. 4.)
- Agricultural Value and Reclamation of Minnesota Peat Soils. By F.J. Alway. (Minnesota Sta. Bul. 188, pp. 136, figs. 54.)
- Forced v. Delayed Systems of Clearing Stump Land.--(Supplement to Bulletin 163.) By M.J. Thompson. (Minnesota Sta. Bul. 189, pp. 5-24, figs. 13.)
- Can the Farmer Mix His Own Fertilizers? By F.W. Taylor. (New Hampshire Sta. Circ. 21, pp. 3-8.)

- A List of Breeders of Standard Bred Poultry in Montana. (Montana Sta. Spec. Circs. 6, pp. 19; 7, pp. 16.)
- Thirty-third Annual Report [1919]. (Nebraska Sta. Rpt. 1920, pp. 49.)
- The Bergen County International Egg-laying and Breeding Contest. By H.R. Lewis. (New Jersey Stas. Hints to Poultrymen 8(1920), No. 9, pp. 4.)
- A Comparison of Fat Tests in Milk as Determined by a Cow-testing Association and by a Creamery. By H.C. Troy. (New York Cornell Sta. Bul. 400, pp. 3-66, figs. 2.)
- A Comparative Study of Some Methods for Determining the Fat Content of Skim Milk. By T.J. McInerney and H.C. Troy. (New York Cornell Sta. Bul. 401, pp. 69-85.)
- The Apple Maggot in New York. By G.W. Herrick. (New York Cornell Sta. Bul. 402, pp. 89-101, figs. 7.)
- Phosphorus in Butter. By J.T. Cusick. (New York Cornell Sta. Mem. 30, pp. 159-187.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 7(1920), No. 35, pp. 12, fig. 1.)
- Report of the Director, July 1, 1917 to June 30, 1919. By P.F. Trowbridge. (North Dakota Sta. Bul. 136, pp. 3-23, figs. 3.)
- The Agriculture of Ohio. By W.A. Lloyd, J.I. Falconer, and C.E. Thorne. (Ohio Sta. Bul. 326, pp. 441, figs. 165.)
- The Chicken Sticktight Flea (Sarcopsylla gallinacea). By C.E. Sanborn. (Oklahoma Sta. Bul. 130, pp. 3-8, figs. 5.)
- The Research Spirit in Scientific Institutions. By B. Youngblood. (Texas Sta. Circ. 21, pp. 3, 4.)
- Commercial Fertilizers, Commercial Feeding Stuffs, Agricultural Seed. By J.L. Hills, C.H. Jones, G.F. Anderson, and L.H. Flint. (Vermont Sta. Insp. Bul. 216, pp. 3-32.)
- Potato Spraying Experiments on the Control of the Pink and Green Aphid (Macrosiphum solanifolii), I. By L.B. Smith. (Virginia Sta. Bul. 29, pp. 101-118, fig. 1.)
- The Prevention of Goitre (Big-neck) and Hairlessness of Newborn Domestic Animals. By J.W. Kalkus. (Washington Sta. Pop. Bul. 117, pp. 3-12, figs. 7.)
- The Cost of a Squirrel and Squirrel Control. By W.T. Shaw. (Washington Sta. Pop. Bul. 118, pp. 3-19, figs. 11.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul. 8(1920), No. 3, pp. 34-48).
- Legume Inoculation. By A.F. Vass. (Wyoming Sta. Circ. 15, pp. 4.)

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Correlations of Certain Characters in Cotton. By E.A. Hodson. (Arkansas Sta. Bul. 169, pp. 3-15, figs. 3.)

Beekeeping in Arkansas. By W.J. Baerg. (Arkansas Sta. Bul. 170, pp. 3-32, figs. 4.)

Results of Seven Years Pedigree Selection in Trice Cotton. By E.A. Hodson. (Arkansas Sta. Bul. 171, pp. 3-27, figs. 14.)

Upland Long Staple Cotton in Arkansas. By E.A. Hodson. (Arkansas Sta. Circ. 49, pp. 4, fig. 1.)

The Evaporation of Grapes. By W.P. Cruess, A.W. Christie, and F.C.H. Flossfeder. (California Sta. Bul. 322, pp. 421-471, figs. 11.)

Advanced Registry Testing of Dairy Cows. By F.C. Woll and P.I. Dougherty. (California Sta. Circ. 218, pp. 15, figs. 6.)

The Present Status of Alkali. By W.P. Kelly. (California Sta. Circ. 219, pp. 10.)

Unfermented Fruit Juices. By W.V. Cruess. (California Sta. Circ. 220, pp. 32, figs. 18.)

Publications Available for Free Distribution. (Idaho Sta. Circ. 13, pp. 2.)

Variations in Farrow: With Special Reference to the Birth Weight of Pigs. By W.J. Carmichael and J.B. Rice. (Illinois Sta. Bul. 226, pp. 67-95, figs. 2.)

Ground Soy Beans for Fattening Cattle. By F.G. King. (Indiana Sta. Bul. 237, pp. 3-6, figs. 2.)

Cattle Feeding XV.-- Winter Steer Feeding, 1919-19. By J.H. Skinner and C.M. Vestal. (Indiana Sta. Bul. 240, pp. 3-23, Fig. 1.)

Commercial Fertilizers. By E.G. Proulx, et al. (Indiana Sta. Bul. 241, pp. 3-99, fig. 1.)

The Hessian Fly in Indiana. By W.H. Larrimer. (Indiana Sta. Circ. 95, pp. 3-8, figs. 5.)

- The Fertilizer Control Law and How to Comply With It. By E.G. Proulx.
(Indiana Sta. Circ. 96, pp. 2, fig. 1.)
- Sixth Annual Report of the Creamery License Division, 1920. By O.E. Reed and T.H. Broughton. (Indiana Sta. Circ. 97, pp. 3-16, figs. 2.)
- Relation of the Barberry to Stem Rust in Iowa. By I.E. Melhus, L.W. Durrell, and Kirby. (Iowa Sta. Res. Bul. 57, pp. 283-325, figs. 21.)
- Suggestions Regarding Dairying in Northwestern Kansas. By J.B. Fitch and J.J. Bayles. (Kansas Sta. Circ. 81, pp. 16, figs. 6.)
- Rules for Testing Dairy Cows for Advanced Registration. By J.B. Fitch and F.W. Atkeson. (Kansas Sta. Circ. 82, pp. 12, fig. 1.)
- The Permit System of Cream Buying. By H.M. Jones, L.D. Bushnell, and J.B. Fitch. (Kansas Sta. Insp. Circ. 9, pp. 3-57, figs. 24.)
- Fertilizer Control in 1918. By C.O. Swanson, W.L. Latshaw, and L.T. Anderegg. (Kansas Sta. Insp. Circ. 10, pp. 9.)
- Kansas State Live Stock Registry Board [Report No. 9, 1919]. By F.W. Bell. (Kansas Sta. Insp. Circ. 11, pp. 127.)
- Seed Corn Infection with Fusarium moniliforme and Its Relation to the Root and Stalk Rots. By W.D. Valleau. (Kentucky Sta. Res. Bul. 226, pp. 27-51, fig. 1.)
- Thirty-first Annual Report, 1919. By W.R. Dodson. (Louisiana Sta. Rpt. 1919, pp. 3-38.)
- Wheat Investigations. --I, Pure Lines. By J. Zinn. (Maine Sta. Bul. 285, pp. 48, pls. 3, figs. 8.)
- The Variation of Milk Secretion with Age in Jersey Cattle. By J.W. Gowen. (Maine Sta. Bul. 286, pp. 49-60.)
- Self Sterility and Cross Sterility in the Apple. By J.W. Gowen. (Maine Sta. Bul. 287, pp. 61-88.)
- Drugs and Foods. By C.D. Woods. (Maine Sta. Off. Insp. 95, pp. 28.)
- The Effect of Age of Eggs on Their Hatching Quality. By R.H. Waite. (Maryland Sta. Bul. 233, pp. 87-101, figs. 8.)
- Earthworms. --The Important Factor in the Transmission of Gapes in Chickens. By R.H. Waite. (Maryland Sta. Bul. 234, pp. 103-118, figs. 6.)
- Capons v. Cockerels. By R.H. Waite. (Maryland Sta. Bul. 235, pp. 119-132, figs. 9.)
- The Control of the Strawberry Leaf Beetle. By E.N. Cory and W.C. Travers. (Maryland Sta. Bul. 236, pp. 133-136, fig. 1.)
- A Fertilizer Experiment With Asparagus. By W.P. Brooks and F.W. Morse. (Massachusetts Sta. Bul. 194, pp. 230-257, pl. 1, figs. 2.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 378, pp. 4.)

Increasing the Production of the Bearing Apple Orchard. By C.P. Halligan. (Michigan Sta. Circ. 43, pp. 3-18, figs. 17.)

Quarterly Bulletin of the Michigan Agricultural Experiment Station. By R.S. Shaw and H.W. Norton, Jr. (Michigan Sta. Quart. Bul., 2 (1920), No. 4, pp. 157-199, figs. 9.)

Soy Beans. By C.R. Megee. (Michigan Sta. Spec. Bul. 100, pp. 3-11, figs. 5.)

Oats in Michigan. By J.F. Cox. (Michigan Sta. Spec. Bul. 101, pp. 3-10, figs. 4.)

The Lecania of Michigan. By R.H. Pettit and E. McDaniel. (Michigan Sta. Tech. Bul. 48, pp. 5-35, figs. 23.)

Report of Northeast Demonstration Farm and Experiment Station, 1918-19. By M.J. Thompson. (Minnesota Sta. Rpt. 1919, pp. 5-28, figs. 4.)

Work and Progress of the Agricultural Experiment Station, 1918-19. By F.B. Munford. (Missouri Sta. Bul. 172, pp. 4-48, figs. 9.)

A Respiration Chamber for Large Domestic Animals. By F.G. Benedict, V.E. Collins, M.F. Hendry, and A. Johnson. (New Hampshire Sta. Tech. Bul. 16, pp. 3-27, pl. 1, figs. 5.)

Analyses of Commercial Feeding Stuffs and Registrations for 1920. By C.S. Cathcart. (New Jersey Stas. Bul. 342, pp. 5-62.)

Broodiness: Its Influence and Control. By R.R. Hannas. (New Jersey Stas. Hints to Poultrymen, 8 (1920), No. 10, pp. 4.)

Notes on New York Plant Diseases, II. By F.C. Stewart. (New York State Sta. Bul. 463, pop. ed. pp. 3-9, figs. 3.)

Spraying Lawns With Iron Sulphate to Eradicate Dandelions. By M.T. Munn. (New York State Sta. Bul. 466, pp. 21-59, pls. 6, figs. 2.)

Spraying Lawns With Iron Sulphate to Eradicate Dandelions. By M.T. Munn. (New York State Sta. [Part of] Bul. 466, pp. 3-6, fig. 1.)

Report of Analyses of Samples of Commercial Fertilizers Collected by the Commissioner of Agriculture During 1919. (New York State Sta. Bul. 467, pp. 61-112)

Some Studies Relating to Calcium Metabolism. By W.P. Wheeler. (New York State Sta. Bul. 468, pp. 3-43.)

Something About Calcium in the Body. By W.P. Wheeler. (New York State Sta. Bul. 468, pop. ed., pp. 3-11, fig. 1.)

Director's Report for 1919. By W.H. Jordan. (New York State Sta. Bul. 470, pp. 28.)

Some of the Effects of the War Upon Fertilizers. By L.L. Wan Slyke. (New York State Sta. Bul. 471, pp. 10.)

- Milking Machines. -- V, The Production of High Grade Milk With Milking Machines Under Farm Conditions. By J.W. Bright. (New York State Sta. Bul. 472, pp. 3-27, pls. 4, figs. 6.)
- Carbonic Acid and Carbonates in Cow's Milk, By L.L. Van Slyke and J.C. Baker (New York State Sta. Tech. Bul. 69, pp. 9.)
- Conditions Causing Variation in the Reaction of Freshly-drawn Milk. By L.L. Van Slyke and J.C. Baker. (New York State Sta. Tech. Bul. 70, pp. 9.)
- A Method for the Preliminary Detection of Abnormal Milks. By J.C. Baker and L.L. Van Slyke. (New York State Sta. Tech. Bul. 71, pp. 3-14.)
- The Determination of the Keeping Quality of Milk. By J.C. Baker and L.L. Van Slyke. (New York State Sta. Tech. Bul. 72, pp. 8.)
- Relation Between Lactic Acid Production and Bacterial Growth in the Souring of Milk. By J.C. Baker, J.D. Brew, and H.J. Conn. (New York State Sta. Tech. Bul. 74, pp. 24, figs. 5.)
- The Accuracy of Bacterial Counts from Milk Samples. By R.S. Breed and W.A. Stocking, Jr. (New York State Sta. Tech. Bul. 75, pp. 3-97.)
- The Carbon Dioxid Contest As a Basis for Distinguishing Heated from Unheated Milk. By L.L. Van Slyke and R.F. Keeler. (New York State Sta. Tech. Bul. 78, pp. 3-7.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul., 7(1920), No. 36, pp. 12.)
- The Bread Value of Wheat. By T. Sanderson. (North Dakota Sta. Bul. 137, pp. 3-45.)
- Orchard Rejuvenation in Southern Ohio, (Second Report). By F.H. Ballou and I.P. Lewis. (Ohio Sta. Bul. 339, pp. 3-42, figs. 20.)
- I, Rusts on Conifers in Pennsylvania. II, Sexual Fusions and Development of the Sexual Organs in the Peridermites. By J.F. Adams. (Pennsylvania Sta. Bul. 160, pp. 3-77, figs. 23.)
- Studies on the Inheritance of Egg Weight. I. -- Normal Distribution of Egg Weight. By P. Hadley and D.W. Caldwell. (Rhode Island Sta. Bul. 181, pp. 5-64, pl. 1, figs. 41.)
- Fertilizer v. Manure for Continuous Vegetable Growing. By B. L. Hartwell and S.C. Damon. (Rhode Island Sta. Bul. 182, pp. 3-11.)
- Inspection of Commercial Feeds. By P.H. Wessels. (Rhode Island Sta. Ann. Feed Circ., 1920, pp. 3-11.)
- The Cowpea Weevil. By F.B. Paddock and H.J. Reinhard. (Texas Sta. Bul. 256, pp. 9-32, pls. 6, figs. 3.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 8(1920), No. 4, pp. 49-64, figs. 3.)
- The Soils of Northern Wisconsin. By A.R. Whitson, T.J. Dünnewald, and C. Thompson. (Wisconsin Sta. Bul. 306, pp. 3-45, pls. 5, figs. 3.)

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- Twenty-ninth Annual Report, 1918. (Arizona Sta. Rpt. 1918, pp. 271-358, figs. 6.)
- Commercial Production of Grape Syrup. By W.V. Cruess. (California Sta. Bul. 321, pp. 401-416, figs. 5.)
- Food Products and Drugs, 1919, I. By E.M. Bailey. (Connecticut Sta. Bul. 219, pp. 213-259.)
- Food Products and Drugs, 1919, II.--Diabetic Foods. By E.M. Bailey. (Connecticut Sta. Bul. 220, pp. 265-342.)
- Soft Pork Studies. By J.M. Scott. (Florida Sta. Bul. 157, pp. 67-75.)
- Forage Crops for the Nonirrigated Lands of Idaho. By R.K. Bonnett. (Idaho Sta. Bul. 120, pp. 3-23, figs. 5.)
- Experiments in the Size of the Seed Piece and Other Factors in the Production of Potatoes Under Irrigation in Southern Idaho. By L.C. Aicher. (Idaho Sta. Bul. 121, pp. 3-15, figs. 8.)
- Forest and Shade Trees for Planting in Idaho, Including a Price List for 1920. By F. G. Miller. (Idaho Sta. Circ. 10, pp. 4, figs. 3.)
- Dendrophoma Leaf Blight of Strawberry. By H.W. Anderson. (Illinois Sta. Bul. 229, pp. 127-136, figs. 3.)
- Flag Smut and Take-all. By G.M. Reed and G.H. Dungan. (Illinois Sta. Circ. 242, pp. 4, fig. 1.)
- Cattle Feeding.--Winter Steer Feeding, 1918-19. By J.H. Skinner and C.M. Vestal. (Indiana Sta. Bul. 240, pop. ed., pp. 3-8, fig. 1.)
- Commercial Feeding Stuffs.--Quarterly Report, October 1, 1919- December 31, 1919. By E.G. Proulx, et al. (Indiana Sta. Bul. 242, pp. 3-83, fig. 1.)
- The Hessian Fly in Indiana. By W.H. Larrimer. (Indiana Sta. Circ. 95, rev. ed., pp. 8, figs. 5.)
- Solenopsis molesta Say (Hym.): A Biological Study. By W.P. Hayes. (Kansas Sta. Tech. Bul. 7, pp. 7-55, figs. 11.)
- Thirty-second Annual Report, 1919, I. (Kentucky Sta. Rpt. 1919, pp. 63, figs. 4.)

- Tomato Wilt. By C.W. Edgerton and C.C. Moreland. (Louisiana Sta. Bul. 174, pp. 3-54, figs. 19.)
- Tobacco Investigations.--Progress Report. By G.H. Chapman. (Massachusetts Sta. Bul. 195, pp. 38, figs. 5.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 379, pp. 4.)
- General Report, North Central Experiment Station, 1915-1919. By O.I. Bergh. (Minnesota Sta. Rpt. 1919, pp. 7-80, figs. 30.)
- Profitable Tomato Fertilizers. By J.T. Rosa, Jr. (Missouri Sta. Bul. 169, pp. 3-12, figs. 2.)
- Insect Pests of Field Crops. By L. Haseman. (Missouri Sta. Bul. 170, pp. 3-39, figs. 37.)
- Agricultural Lime. By M.F. Miller and H.H. Krusekopf. (Missouri Sta. Bul. 171, pp. 3-24, figs. 9.)
- The Missouri Poultry House. By H.L. Kempster. (Missouri Sta. Circ. 93, pp. 9, figs. 8.)
- The European Corn Borer. By L. Haseman. (Missouri Sta. Circ. 94, pp. 4, fig. 1.)
- Growing Late Potatoes. By J.T. Rosa, Jr. (Missouri Sta. Circ. 95, pp. 4.)
- Official Testing of Dairy Cattle. By A.C. Ragsdale and C.W. Turner. (Missouri Sta. Circ. 96, pp. 12, figs. 5.)
- Cost and Price Tendencies on the Farm. By R.M. Green. (Missouri Sta. Circ. 97, pp. 8, figs. 7.)
- The Normal Growth of Dairy Cattle. By C.H. Eckles. (Missouri Sta. Res. Bul. 36, pp. 3-20, figs. 5.)
- Corn Experiments at the Judith Basin Substation. By W.P. Baird. (Montana Sta. Bul. 132, pp. 3-24, figs. 10.)
- Seventeenth Annual Report of the State Entomologist of Montana. By R.A. Cooley. (Montana Sta. Bul. 133, pp. 3-15, fig. 1.)
- Studies on the Digestibility of Sunflower Silage. By W.E. Joseph and M.J. Blish. (Montana Sta. Bul. 134, pp. 3-8.)
- How to Select Good Layers. By F.E. Mussehl. (Nebraska Sta. Circ. 12, pp. 3-8, figs. 5.)
- Fusarium Blight of the Soy Bean and the Relation of Various Factors to Infection. By R.O. Cromwell. (Nebraska Sta. Res. Bul. 14, pp. 5-43, figs. 5.)
- The Immunizing Value of Commercial Vaccines and Bacterins Against Hemorrhagic Septicemia. By L. Van Es and H.M. Martin. (Nebraska Sta. Res. Bul. 17, pp. 319.)

- A Campaign Against Dangerous Poultry Parasites. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen, 8(1920), No. 11, pp. 4.)
- Dairy Cow Feeding Experiments. By L. Foster and J.R. Meeks. (New Mexico Sta. Bul. 122, pp. 3-40, fig. 1.)
- Soil Moisture Movement in Relation to Growth of Alfalfa. By C.A. Thompson and E.L. Barrows. (New Mexico Sta. Tech. Bul. 123, pp. 3-38, figs. 18.)
- A Study of Selections for the Size, Shape, and Color of Hens' Eggs. By E.W. Benjamin. (New York Cornell Sta. Mem. 31, pp. 195-312, pl. 1, figs. 38.)
- The Carbon Dioxid of the Soil Air. By H.W. Turpin. (New York Cornell Sta. Mem. 32, pp. 319-362, figs. 17.)
- The Ribbed Pine Borer. By W.N. Hess. (New York Cornell Sta. Mem. 33, pp. 367-381, pl. 1, figs. 5.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul., 7(1920), No. 37, pp. 12.)
- Thirteenth and Fourteenth Annual Report of the State Demonstration Farms, 1918-19. By W.R. Porter. (North Dakota Sta. Bul. 135, pp. 3-83.)
- Twelfth Annual Report of the Dickinson Substation 1919. By Leroy Moomaw. (North Dakota Sta. Bul. 138, pp. 3-24, figs. 6.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul., 5(1920), No. 6, pp. 163-192, figs. 9.)
- Insecticide Investigations. By A.L. Lovett. (Oregon Sta. Bul. 169, pp. 55, figs. 5.)
- Thirty-second Annual Report. (Rhode Island Sta. Rpt. 1919, pp. 3-18.)
- The Cotton or Melon Louse.--Life History Studies. By F.B. Paddock. (Texas Sta. Bul. 257, pp. 7-54, pls. 4, figs. 5.)
- Nitrification in Texas Soils. By G.S. Fraps. (Texas Sta. Bul. 259, pp. 5-37, figs. 2.)
- The Texas Feed Law.--Revised Rules and Regulations. By F.D. Fuller. (Texas Sta. Cont. Circ. E, pp. 3-8.)
- The Effects of High Protein and High Energy Rations in Feeding Dairy Cows. By W.B. Ellett and C.W. Holdaway. (Virginia Sta. Tech. Bul. 20, pp. 3-16.)
- Twenty-ninth Annual Report, 1919. (Washington Sta. Bul. 155, pp. 5-57.)
- Prune Growing in Western Washington. By O.M. Morris. (Washington Sta. Pop. Bul. 120, pp. 3-21, figs. 7.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 8(1920), No. 5, pp. 65-80.)
- Testing Soils for Acidity. By E. Truog. (Wisconsin Sta. Bul. 312, pp. 3-25, pl. 1, figs. 11.)

Buttermilk Cheese and Cottage Cheese: Their Manufacture and Sale. By J.L. Sammis. (Wisconsin Sta. Bul. 315, pp. 3-16, figs. 9.)

The Occurrence of Red Calves in Black Breeds of Cattle. By L.J. Cole and S.V.H. Jones. (Wisconsin Sta. Bul. 313, pp. 3-35, figs. 4.)

Farm Labor in Wisconsin. By H.C. Taylor and J.D. Black. (Wisconsin Sta. Bul. 316, pp. 3-48, figs. 9.)

The Effect of Alkali Upon Portland Cement, II. By K. Steik. (Wyoming Sta. Bul. 122, pp. 3-38, figs. 23.)

Chemical and Pharmacological Examination of the Woody Aster. By O.A. Beath. (Wyoming Sta. Bul. 123, pp. 41-66, figs. 9.)

Sarcocystis Tenella.--The Muscle Parasite of the Sheep. By J.W. Scott and E.C. O'Roke. (Wyoming Sta. Bul. 124, pp. 69.)

The Chemical Examination of the Silvery Lupine. By O.A. Beath. (Wyoming Sta. Bul. 125, pp. 101-114, figs. 5.)

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LIST OF STATION PUBLICATIONS
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- Annual Report, 1919. By J.M. Westgate. (Hawaii Sta. Rpt. 1919. pp. 73, pls. 10.)
- Sugar Beet and Apple Sirups. By L.E. Longley. (Idaho Sta. Circ. 14, pp. 7, figs. 4.)
- Diseases of Illinois Fruits. By H.W. Anderson. (Illinois Sta. Circ. 241, pp. 3-155, pls. 2, figs. 58.)
- Control of Corn Rots by Seed Selection. By J.R. Holbert. (Illinois Sta. Circ. 243, pp. 4, figs. 4.)
- Commercial Feeding Stuffs.--Quarterly Report, January 1, 1920- March 31, 1920. By E.G. Proulx, et al. (Indiana Sta. Bul. 243, pp. 3-64.)
- A Comparison of Methods for Estimating Fat in Butter. By H.W. Gregory, P.S. Lucas, and G. Spitzer. (Indiana Sta. Bul. 244, pp. 3-11, figs. 3.)
- Value of Alfalfa Hay for Fattening Cattle. By J.H. Skinner and F.G. King. (Indiana Sta. Bul. 245, pp. 3-7, fig. 1.)
- The Efficiency of Milk Substitutes for Calf Feeding. By G. Spitzer and R.H. Carr. (Indiana Sta. Bul. 246, pp. 3-8, figs. 2.)
- Bees and Their Relation to Arsenical Sprays at Blossoming Time. By W.A. Price. (Indiana Sta. Bul. 247, pp. 3-15, figs. 8.)
- Cattle Feeding.--Winter Steer Feeding, 1919-20. By J.H. Skinner and F.G. King. (Indiana Sta. Bul. 249, pp. 3-24, fig. 1.)
- Cattle Feeding.--Winter Steer Feeding, 1919-20. By J.H. Skinner and F.G. King. (Indiana Sta. Bul. 249, pop. ed., pp. 3-7, fig. 1.)
- Selecting and Saving Tomato Seed. By W.A. Huelson. (Indiana Sta. Bul. 250, pp. 3-26, figs. 13.)
- Housing Farm Poultry. By A.G. Philips. (Indiana Sta. Circ. 98, pp. 3-22, figs. 22.)
- Feeding Dairy Cattle. By A.C. McCandlish. (Iowa Sta. Circ. 64, pp. 32, fig. 1.)
- The Production of Clean Milk. By J.J. Hooper and J.W. Nutter. (Kentucky Sta. Circ. 24, pp. 3-15, figs. 12.)

- Factors Determining the Keeping Quality of Cane Sugar. By N. and L. Kopeloff.
(Louisiana Sta. Bul. 170, pp. 3-63, fig. 1.)
- The Amount of Salt in Irrigation Water Injurious to Rice. By F.C. Quereau. (Louisiana Sta. Bul. 171, pp. 3-14, figs. 8.)
- The Clarification of Cane Juice Without Chemical Treatment. By F.W. Zerban. (Louisiana Sta. Bul. 173, pp. 26, figs. 2.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station.
By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 380, pp. 4.)
- Ashland Community Survey.--An Economic, Social, and Sanitary Survey in Howard County, Mo. By C.C. Taylor and E.W. Lehmann. (Missouri Sta. Bul. 173, pp. 3-16, figs. 9.)
- Freezing Injury of Seed Corn. By T.A. Kiesselbach and J.A. Ratcliff. (Nebraska Sta. Res. Bul. 16, pp. 96, figs. 16.)
- The Value of Commercial Vaccines and Bacterine Against Fowl Cholera. By L. Van Es and H.M. Martin. (Nebraska Sta. Res. Bul. 18, pp. 3-11.)
- Spraying for Late Blight of Potatoes. By O.R. Butler. (New Hampshire Sta. Circ. 22, pp. 3-6.)
- A Comparison of Some Traits of Conformation of Southdown and Rambouillet Sheep and of their F₁ Hybrids, with Preliminary Data and Remarks on Variability in F₂. By E.G. Ritzman and C.B. Davenport. (New Hampshire Sta. Tech. Bul. 15, pp. 3-32, figs. 25.)
- The Improved New Jersey Multiple Unit Laying House. By I.L. Owen and G.H. Pound.
(New Jersey Stas. Hints to Poultrymen, 8(1920), No. 12, pp. 4, figs. 2.)
- Annual Report, 1918. (New York State Sta. Rpt. 37(1918), pp. VII 484, pls. 37, figs 46.)
- The Control of Frog-eye on Apple. By R.C. Walton. (Pennsylvania Sta. Bul. 162, pp. 3-39, figs. 19.)
- Cross Breeding Delaine Merino Ewes with Pure Bred Mutton Rams. By W.H. Tomhave and C.W. McDonald. (Pennsylvania Sta. Bul. 163, pp. 3-19, figs. 8.)
- The Selection of Seed Corn in Porto Rico. By H.C. Hendricksen. (Porto Rico Sta. Circ. 18, pp. 22; figs. 7.)
- The Slender Wireworm: Its Relation to Soils. By G.M. Anderson. (South Carolina Sta. Bul. 204, pp. 3-14, figs. 4.)
- Relative Values of Feed Proteins for Dairy Cows. By C. Larsen, T. Wright, H. Jones, H. Hoover, and B. Johnson. (South Dakota Sta. Bul. 188, pp. 161-204.)
- Wilts of the Watermelon and Related Crops. By J.J. Taubenhaus. (Texas Sta. Bul. 260, pp. 3-50, figs. 22.)
- Diseases of Grains, Sorghums, and Millet, and Their Control in Texas. By J.J. Taubenhaus. (Texas Sta. Bul. 261, pp. 3-34, figs. 15.)

- The Searing Iron v. The Knife for Docking or Detailing Lambs. By J.M. Jones and C.M. Hubbard. (Texas Sta. Bul. 262, pp. 3-12, fig. 1.)
- How to Cull a Flock of Hens. By B. Alder. (Utah Sta. Circ. 42, pp. 3-8, figs. 6.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Mo. Bul. 8(1920), No. 6, pp. 81-96, figs. 2.)
- Off-year Apple Bearing. By R.H. Roberts. (Wisconsin Sta. Bul. 317, pp. 3-34, figs. 16.)

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Annual Report, 1918. (Alaska Sta. Rpt. 1918, pp. 104, pls. 10.)

Fattening Native Steers for Market: 1920. By R. H. Williams. (Arizona Sta. Bul. 91, pp. 355-396, figs. 6.)

Heavy v. Light Grain Feeding for Dairy Cows. By F.W. Woll, E.C. Voorhies, and C.V. Castle. (California Sta. Bul. 323, pp. 3-21, fig. 1.)

Storage of Perishable Fruits at Freezing Temperatures. By W.V. Cruess, E.L. Overholser, and S.A. Bjarnason. (California Sta. Bul. 324, pp. 25-43.)

Rice Irrigation Measurements and Experiments in Sacramento Valley, 1914-1919. By F. Adams. (California Sta. Bul. 325, pp. 48-69, figs. 4.)

How California is Helping People Own Farms and Rural Homes. By E. Mead. (California Sta. Circ. 221, pp. 28, figs. 8.)

Report on Commercial Feeding Stuffs, 1919. By E.M. Bailey. (Connecticut State Sta. Bul. 221, pp. 345-393.)

New or Unusual Plant Injuries and Diseases Found in Connecticut, 1916-1919. By G.P. Clinton. (Connecticut State Sta. Bul. 222, pp. 397-482, pls. 24.)

Biennial Report, 1917-18, 1918-19. (Connecticut Storrs Sta. Bien. Rpts. 1917-18, 1918-19, pp. IX 190, figs. 30.)

Director's Report, 1918-19. (Kansas Sta. Rpt. 1919, pp. 88.)

A Method of Selecting L511 Cane Free of the Mosaic Disease for Planting Purposes. By C.W. Edgerton. (Louisiana Stas. Bul. 176, pp. 3-7, fig. 1.)

Some Observations Upon the Effect of Borax in Fertilizers. By W.J. Morse. (Maine Sta. Bul. 228, pp. 89-120, pls. 2, figs. 10.)

List of Available Publications. By C.D. Woods. (Maine Sta. [Leaflet], 1919, pp. 2.)

The Relation of Conformation to Milk Yield in Jersey Cattle. By J.W. Gowen. (Maine Sta. [Pamphlet], 1920, pp. 12, fig. 1.)

Improved Strains of Aroostook Grown Wheats. By J. Zinn. (Maine Sta. [Pamphlet], 1920, pp. 11.)

- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 381, pp. 4.)
- Dusting and Spraying Experiments of 1918-19. By W.C. Dutton. (Michigan Sta. Spec. Bul. 102, pp. 50, figs. 34.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. By M.M. McCool. (Michigan Sta. Quart. Bul. 3(1920), No. 1, pp. 5-33, figs. 9.)
- Potato Diseases in Minnesota. By G.R. Bisby and A.G. Tolaas. (Minnesota Sta. Bul. 190, pp. 44, figs. 29.)
- A Helminthosporium Disease of Wheat and Rye. By L.J. Stakman. (Minnesota Sta. Bul. 191, pp. 5-18, pls. 5.)
- The Use of Bordeaux Mixture for Spraying Potatoes. By G.R. Bisby and A.G. Tolaas. (Minnesota Sta. Bul. 192, pp. 32, figs. 4.)
- Report of Northwest Experiment Station, Crookston, 1919. By C.G. Selvig. (Minnesota Sta. Bul., Crookston Ser. 13(1920), No. 2, pp. 5-32.)
- Report of West Central Experiment Station, Morris, 1919. By P.E. Miller. (Minnesota Sta. Rpt. 1919, pp. 5-47.)
- Fruit News Notes. (Missouri Sta. [Pamphlet], No. 4, pp. 8.)
- Sixth Annual Report of the Montana Grain Inspection Laboratory. By A. Atkinson and E.W. Jahnke. (Montana Sta. Bul. 135, pp. 21, figs. 8.)
- Seventh Annual Report of the Montana Grain Inspection Laboratory. By P.V. Cardon, W.O. Whitcomb, and W.F. Day. (Montana Sta. Bul. 136, pp. 32, figs. 4.)
- Montana Grades for Grain. By W.O. Whitcomb. (Montana Sta. Circ. 90, pp. 14.)
- Twenty-sixth Annual Report, 1919. By F.B. Linfield. (Montana Sta. Rpt. 1919, pp. 48, fig. 1.)
- The Economics of Artificial Illumination. By H.R. Lewis. (New Jersey Stas. Hints to Poultrymen, 9(1920), No. 1, pp. 4, fig. 1.)
- Fall Plowing v. Spring Plowing for North Dakota Grain Crops. By H.L. Walster. (North Dakota Sta. Bul. 141, pp. 4, figs. 8.)
- The Cost of Producing Wheat and Other Crops in North Dakota in 1919. By R. Willard. (North Dakota Sta. Bul. 142, pp. 20, fig. 1.)
- Special Bulletin, Food Department. (North Dakota Sta. Spec. Bul. 6(1920), No. 2, pp. 13-28.)
- Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls. 5(1920), Nos. 7, pp. 193-223, figs. 4; 8, pp. 225-240, figs. 2; 9, pp. 241-255, figs. 4.)
- The Gray Garden Slug. By A.L. Lovett and A.B. Black. (Oregon Sta. Bul. 170, pp. 43, pl. 1, figs. 15.)

- Spray Gun y. Rod and Dust in Apple Orchard Pest Control. By L. Childs. (Oregon Sta. Bul. 171, pp. 46, figs. 17.)
- The Western Pine Bark Beetle. By W.J. Chamberlin. (Oregon Sta. Bul. 172, pp. 30, figs. 8.)
- Fattening Steers. By E.L. Potter and R. Withycombe. (Oregon Sta. Bul. 174, pp. 13, figs. 2.)
- Fruit Grower's Handbook of Apple and Pear Insects. By A.L. Lovett and B.B. Fulton. (Oregon Sta. Circ. 22, pp. 72, figs. 46.)
- Lime Requirement of Pennsylvania Soils. By J.W. White. (Pennsylvania Sta. Bul. 164, pp. 36, figs. 7.)
- Report of the Porto Rico Agricultural Experiment Station, 1918. By D.W. May. (Porto Rico Sta. Rpt. 1918, pp. 24, pls. 2.)
- Thirty-first Annual Report. (Rhode Island Sta. Rpt. 1918, pp. 3.)
- List of Publications. (Rhode Island Sta. [Pamphlet], pp. VIII.)
- The Malvaceous Plants of Texas. By H.C. Hanson. (Texas Sta. Circ. 22, pp. 18.)
- A Variety Survey and Descriptive Key of Small Grains in Utah. By G. Stewart. (Utah Sta. Bul. 174, pp. 35, figs. 12.)
- A Study of the Cost of Spraying Kale. By H.H. Zimmerley and L.B. Smith. (Virginia Sta. Bul. 30, pp. 119-134, fig. 1.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta., Mo. Bul. 8(1920), No. 7, pp. 97-112, figs. 3.)
- Wisconsin Live Stock Shipping Associations. By B.H. Hibbard, L.G. Foster, and D.G. Davis. (Wisconsin Sta. Bul. 314, pp. 22, figs. 6.)
- Experiments in Farming. By H.L. Russell and F.B. Morrison. (Wisconsin Sta. Bul. 319, pp. 3-76, figs. 30.)
- Farm Leasing Systems in Wisconsin. By B.H. Hibbard and J.D. Elack. (Wisconsin Sta. Res. Bul. 47, pp. 60, figs. 3.)

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The Mosaic Disease of Sweet Potatoes. By H.R. Rosen. (Arkansas Sta. Bul. 167, pp. 3-10, pls. 5.)

Making Bordeaux Mixture and Some Other Spraying Problems. By W.S. Fields and J.A. Elliott. (Arkansas Sta. Bul. 172, pp. 3-12, fig. 11.)

Fundamental Principles of Cooperation in Agriculture. By G.H. Powell. (California Sta. Circ. 222, pp. 24.)

Irrigation Water as a Factor in the Dissemination of Weed Seeds. By G.E. Egginton and W.W. Robbins. (Colorado Sta. Bul. 253, pp. 3-25, figs. 7.)

Horticulture at High Altitudes. By R.A. McGinty. (Colorado Sta. Bul. 256, pp. 19, figs. 18.)

Factors that Affect Alfalfa Seed Yields. By P.K. Blinn. (Colorado Sta. Bul. 257, pp. 3-32, figs. 27.)

Perennial Peppergrass.--A Noxious Weed in Colorado. By A.K. Peiterson and R.T. Burdick. (Colorado Sta. Bul. 264, pp. 3-10, figs. 13.)

Third Annual Report. By W.W. Robbins and G.E. Egginton. (Colorado Sta. Seed Lab. Bul. 2(1919), No. 2, pp. 27, figs. 5.)

Forty-third Annual Report of the Connecticut Agricultural Experiment Station, 1919. (Connecticut Station Ann. Rpt. 1919, pp. XVI & 506, pls. 56, figs. 28.)

Inbreeding Animals.--I, Experimental Evidence; II, Experimental Results. By F.A. Hays. (Delaware Sta. Bul. 123, pp. 49, figs. 9.)

Swine Production in Delaware. By F.A. Hays. (Delaware Sta. Bul. 124, pp. 43, figs. 12.)

Annual Report of the Director. (Delaware Sta. Bul. 125, pp. 30.)

Elimination of Germs from Dairy Utensils.--I, By Raising; II, By Drying in Sun and Air. By M.J. Prucha and H.A. Havings. (Illinois Sta. Bul. 1230, pp. 159-163.)

Cooperative Marketing of Horticultural Products. By J.W. Lloyd. (Illinois Sta. Circ. 244, pp. 3-13.)

Sheep Feeding, IX.--Fattening Western Lambs, 1918-19. By J.H. Skinner and C.M. Vestal. (Indiana Sta. Bul. 254, pop. ed., pp. 8, fig. 1.)

Orchard Cover Crops. By J. Oskamp. (Indiana Sta. Bul. 248, pp. 41, figs. 6.)

A Rural Social Survey of Lone Tree Township, Clay County, Iowa. By G.H. Van Tungen and W.A. Brindley. (Iowa Sta. Bul. 193, pp. 219-255, figs. 14.)

Annual Report, 1919. By C.F. Curtiss. (Iowa Sta. Rpt. 1919, pp. 53.)

Preparation and Shipment of Specimens for Laboratory Diagnosis. By H.F. Lienhardt. (Kansas Sta. Circ. 83, pp. 2-11.)

Principal Noxious Weeds of Kansas. By H.F. Roberts. (Kansas Sta. Circ. 84, pp. 19, figs. 10.)

Cooperation Applied to Marketing by Kansas Farmers. By T. Macklin. (Kansas Sta. Bul. 224, pp. 61, figs. 8.)

Rice Investigations. By F.C. Quereau. (Louisiana Sta. Bul. 172, pp. 3-87, figs. 35.)

The Prevention of Sugar Deterioration. By N. Kopeloff, C.J. Welcome, and L. Kopeloff. (Louisiana Sta. Bul. 175, pp. 3-58, fig. 1.)

The Correlation Between Milk Yield of One Lactation and That of Succeeding Lactations. By J.W. Gowen. (Maine Sta. Bul. 289, pp. 122-132.)

The Variation of Butterfat Percentage with Age in Jersey Cattle. By J.W. Gowen. (Maine Sta. Bul. 290, pp. 133-145.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 382, pp. 4.)

Principles of Poultry Feeding. By W.F. Schoppe. (Montana Sta. Circ. 91, pp. 16, fig. 1.)

Fortieth Annual Report of the New Jersey State Agricultural Experiment Station and the Thirty-second Annual Report of the New Jersey Agricultural College Experiment Station, 1919. (New Jersey Stas. Rpts. 1919, pp. XXXI + 544, pls. 20, figs. 8.)

Ways and Means of Feeding the Laying Hens. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen, 9(1920), No. 2, pp. 4.)

Some Factors Related to the Quality of Wheat and Strength of Flour. By W.L. Stockham. (North Dakota Sta. Bul. 139, pp. 69, figs. 15.)

Grass Fat Cattle Warmed up on Corn Fodder with a Straw Shed as Shelter. By J.H. Shepperd. (North Dakota Sta. Bul. 140, pp. 3, figs. 6.)

Is the Grain Trade Solicitous for the Public? By T. Sanderson. (North Dakota Sta. Spec. Bul., Food Dept., 6(1920), No. 1, pp. 12.)

The Chrysanthemum Gall Midge. By T.L. Guyton. (Ohio Sta. Bul. 341, pp. 99-114, figs. 7.)

Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul., 5(1920), No. 10, pp. 257-271, figs. 2.)

Annual Report, 1919. (Porto Rico Sta. Ann. Rpt., 1919, pp. 37, pls. 4.)

Field Experiments Which Included the Soy Bean. By B.L. Hartwell. (Rhode Island Sta. Bul. 183, pp. 3-15.)

Analyses of Commercial Fertilizers. By R.N. Brackett and H.M. Stackhouse. (South Carolina Sta. Bul. 203, pp. 72.)

Corn and Millett Silage for Fattening Cattle. By J.W. Wilson and A.H. Kuhlman. (South Dakota Sta. Bul. 189, pp. 205-220.)

The Staple of Texas Cotton. By E.P. Humbert. (Texas Sta. Bul. 266, pp. 7, fig. 1.)

Reliable Agricultural Information and How to Secure It. By A.B. Conner. (Texas Sta. Circ. 23, pp. 16, figs. 8.)

Blackberries of New England.--Their Classification. By E. Brainerd and A.K. Peiterson. (Vermont Sta. Bul. 217, pp. 84, pls. 4, figs. 32.)

Annual Report, 1919. (Virgin Islands Sta. Rpt. 1919, pp. 16, pls. 4.)

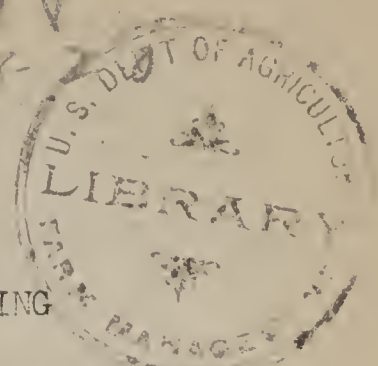
Pea Straw for Fattening Beef Cattle. By H. Hackedorn and J. Sotola. (Washington Sta. Bul. 157, pp. 3-24, figs. 7.)

Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Mo. Bul., 3(1920), No. 8, pp. 113-128, figs. 7.)

Sunflowers v. Corn for Silage.--A Preliminary Report. By E.L. Anthony and H.O. Henderson. (West Virginia Sta. Circ. 32, pp. 3, fig. 1.)

Credit Needs of Settlers in Upper Wisconsin. By R.T. Ely, B.H. Hibbard, and A.B. Cox. (Wisconsin Sta. Bul. 318, pp. 35, figs. 5.)

UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
A. C. TRUE, DIRECTOR.



LIST OF STATION PUBLICATIONS
RECEIVED BY THE OFFICE OF EXPERIMENT STATIONS DURING
DECEMBER, 1920.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Improving the Quality of Peanut-fed Hogs by Finishing in Dry Lot on Corn and Tankage, Corn, and Cottonseed Meal, Corn and Velvet Beans. By G.S. Templeton. (Alabama Sta. Bul. 213, pp. 61-96.)

Annual Report, 1919. (Alaska Sta. Rpt. 1919, pp. 90, pls. 15.)

Annual Report, 1919-20. (California Sta. Rpt. 1920, pp. 159, pl. 1.)

Bacteriological studies of Methods of Preparing a Seedbed for Wheat. By P.L. Gainey. (Kansas Sta. Tech. Bul. 8, pp. 7-64, figs. 10.)

Eighth Annual Cattlemen's Round Up. (Kansas Sta. Prog. Rpt. 1919-20, pp. 3, fig. 1.)

Observations on the Structure and Coloration of the Larval Corn-ear Worm, the Bud Worm, and a Few Other Lepidopterous Larvae. By H. Gahan. (Kentucky Sta. Res. Bul. 227, pp. 55-84, pls. 12, figs. 3.)

I.--Report on Soil Experiment Fields, II.--Maintenance of Fertility. By G. Roberts and A.E. Ewan. (Kentucky Sta. Bul. 228, pp. 89-131, fig. 1.)

The Correlation Between the Butterfat Percentage of One Lactation and Succeeding Lactations in Jersey Cattle. By J.W. Gowen. (Maine Sta. Bul. 291, pp. 145-157.)

Potato Mosaic. By D. Folsom. (Maine Sta. Bul. 292, pp. 157-164, pls. 2.)

Studies in Milk Secretion, VIII.--Influence of Age on Milk and Butterfat Yield in Holstein-Friesian Cattle. By J.W. Gowen. (Maine Sta. Bul. 293, pp. 115-197, figs. 2.)

Commercial Feeding Stuffs, 1919-20. By C.D. Woods. (Maine Sta. Off. Insp. 96, pp. 29-64.)

Commercial Fertilizers, 1920. By C.D. Woods. (Maine Sta. Off. Insp. 97, pp. 65-88.)

Commercial Agricultural Seeds. By C.D. Woods. (Maine Sta. Off. Insp. 98, pp. 89-112.)

Annual Report, 1919. (Massachusetts Sta. Pub. Doc. 31, pp. 47a + 268, pls. 15, figs. 35.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 383, pp. 4.)

Small Fruits for the Home Orchard. By F.V. Faurel. (Missouri Fruit Sta. Circ. 14, pp. 8.)

Growing the Home Orchard. (Missouri Fruit Sta. Circ. 15, pp. 8.)

- Spray Calendar and Spray Mixtures. (Missouri Fruit Sta. Circ. 18, pp. 12, figs. 4.)
- Condition of the Commercial Apple Crop of the United States June 15. (Missouri Fruit Sta. [Leaflet] No. 1, pp. 4.)
- Condition of Commercial Apple Crop of the United States July 15. (Missouri Fruit Sta. [Leaflet] No. 2, pp. 6.)
- Condition of Commercial Apple Crop of the United States August 15. (Missouri Fruit Sta. [Leaflet] No. 3, pp. 8.)
- Analyses of Materials Sold as Insecticides and Fungicides During 1920. By C.S. Cathcart and R.L. Willis. (New Jersey Stas. Bul. 343, pp. 5-20.)
- Buying and Selling Milk on a Butterfat Basis. By F.C. Button. (New Jersey Stas. Circ. 121, pp. 24, figs. 4.)
- The Handling and Packing of Market Eggs. By G.H. Pound. (New Jersey Stas. Hints to Poultrymen, 9(1920), No. 3, pp. 4, fig. 1.)
- Neglect of Details in Care of Milking Machines Results in Low Grade Milk. By J.D. Lockett and J.W. Bright. (New York State Sta. Bul. 472, pop. ed., pp. 3-13, pls. 4, figs. 5.)
- Soil Studies: I, The Influence of Fertilizers Upon the Productiveness of Several Types of Soil.--II, The Influence of Fertilizers and Plant Growth Upon Soil Solubles. By W.H. Jordan. (New York State Sta. Bul. 473, pp. 3-27.)
- Some Observations on Soil Fertility and Crop Production. By W.H. Jordan, G.W. Churchill and J.D. Lockett. (New York State Sta. Bul. 473, pop. ed., pp. 3-18, fig. 1.)
- Experiments on the Spacing of Potato Plants. By F.C. Stewart. (New York State Sta. Bul. 474, pp. 3-32.)
- Seed Potatoes Improved by Close Planting. By F.C. Stewart and J.D. Lockett. (New York State Sta. Bul. 474, pop. ed., pp. 3-6.)
- The New York Seed Law and Seed Testing. By M.T. Munn. (New York State Sta. Bul. 476, pp. 3-28, figs. 4.)
- The New York Seed Law and Seed Testing. By M.T. Munn. (New York State Sta. Bul. 476, abridged ed., pp. 3-15.)
- A Progress Report of Fertilizer Experiments with Fruits. By R.C. Collison. (New York State Sta. Bul. 477, pp. 3-53, figs. 6.)
- Should the Orchard be Fertilized? By R.C. Collison and J.D. Lockett. (New York State Sta. Bul. 477, pop. ed., pp. 3-11, fig. 1.)
- Sources of Agricultural Lining Materials. By R.C. Collison. (New York State Sta. Bul. 478, pp. 14.)
- Asexual Inheritance in the Violet (*Viola odorata*). By R.D. Anthony. (New York Sta. Tech. Bul. 76, pp. 3-55, figs. 12.)
- The Leafhopper as a Potato Pest. By P.J. Parrott and R.D. Olmstead. (New York State Sta. Tech. Bul. 77, pp. 3-18, pls. 5.)

- Concerning inosite Phosphoric Acids: I, Synthesis of Phytic Acid.--II, Composition of inosite Phosphoric Acid of Plants. By R.J. Anderson. (New York State Sta. Tech. Bul. 79, pp. 3-22.)
- The Reaction of Milk in Relation to the Presence of Blood Cells and of Specific Bacterial Infections of the Udder. By J.C. Baker and R.S. Breed. (New York State Sta. Tech. Bul. 80, pp. 3-19.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bulletins, 7(1920), No. 34, pp. 15, fig. 1; No. 39, pp. 8; No. 40, pp. 6; No. 41, pp. 7.)
- Report of Langdon Substation 1914 to 1919. By P.F. Trowbridge. (North Dakota Sta. Bul. 134, pp. 3-32, figs. 8.)
- Green Forage Crops and Corn for Fattening Lambs. By J.W. Hammond. (Ohio Sta. Bul. 340, pp. 45-99, figs. 21.)
- Organizations Among Ohio Farmers. By H.E. Erdman. (Ohio Sta. Bul. 342, pp. 117-166, figs. 14.)
- The Use of Forage Crops in the Fattening of Pigs. By W.L. Robison. (Ohio Sta. Bul. 343, pp. 169-222, figs. 31.)
- Irrigation of Potatoes. By W.L. Powers and W.W. Johnston. (Oregon Sta. Bul. 173, pp. 28, figs. 9.)
- Fattening Lambs.--Shelter v. Open Lot. By R. Withycombe and E.L. Potter. (Oregon Sta. Bul. 175, pp. 11, figs. 3.)
- Inspection of Commercial Fertilizers. By P.H. Wessels. (Rhode Island Ann. Fert. Circ., pp. 3-11.)
- Muscadine Grapes: Culture and Varieties. By W.J. Young. (South Carolina Sta. Bul. 205, pp. 48, figs. 19.)
- Products and Utilization of Muscadine Grapes. By W.J. Young. (South Carolina Sta. bul. 206, pp. 37, figs. 5.)
- Thirty-third Annual Report, 1920. (South Carolina Sta. Rpt. 1920, pp. 64.)
- Annual Report of the Director, 1920. (South Dakota Sta. Rpt. 1920, pp. 3-31.)
- Commercial Fertilizers in 1919-20. By G.S. Fraps and S.E. Asbury. (Texas Sta. Bul. 265, pp. 3-25.)
- A Study of Goitre and Associated Conditions in Domestic Animals. By J.W. Kalkus. (Washington Sta. Bul. 156, pp. 48, pls. 9.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta., Mo. Bul., 8(1920), No. 9, pp. 130-144, figs. 5.)
- Cooperative Marketing by West Virginia Farm Bureau. By A.J. Dadisman. (West Virginia Sta. Circ. 33, pp. 4, fig. 1.)
- Cheesemakers Save by Figuring Costs. By J.L. Sammis and O.A. Juve. (Wisconsin Sta. Bul. 321, pp. 3-21.)

